

Euphilomedes carcharodonta (Smith, 1952)

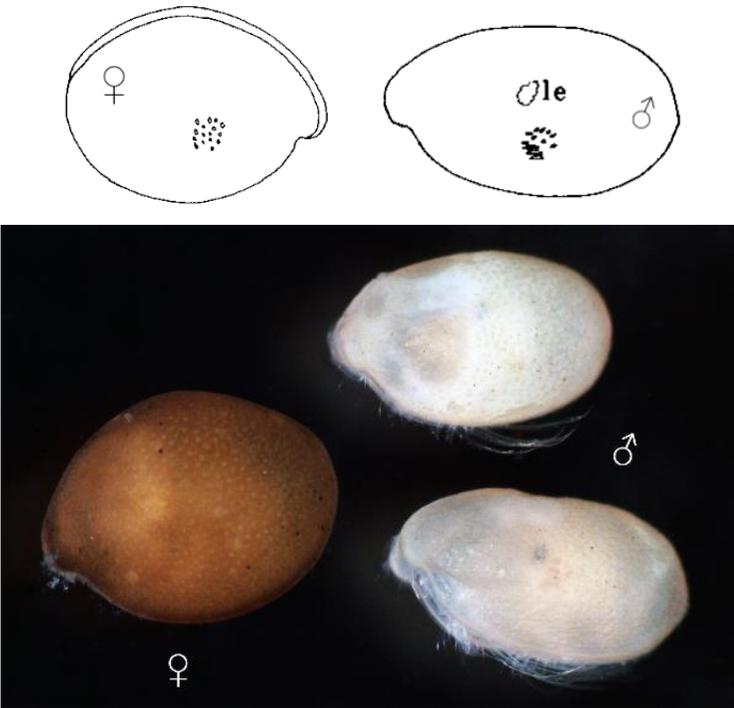
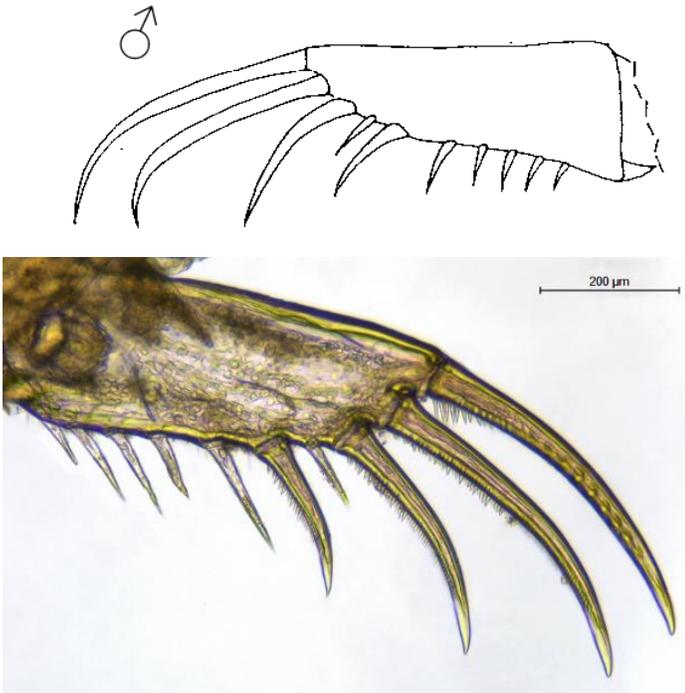
Nomenclature	
Phylum	Arthropoda
Class	Ostracoda
Order	Myodocopida
Family	Philomedidae
Common Synonyms (S) Previous Names (PN)	<i>Philomedes carcharodonta</i> Smith 1952 (S)



Distribution	
Type Locality	1934, Ganges Harbour, B.C., depth 5.5-7.3 m (Kornicker and Harrison-Nelson 1997)
Geographic Distribution	West coast of Canada (Poulsen 1962); Puget Sound, Washington (Lie and Evans 1973); Southern California (Baker 1975)
Habitat	Depth preference 5.5-60 m, range 5.2-1280.2 m (Baker 1975)

Description
From Smith 1952, as <i>Philomedes carcharodonta</i>
Size: Male 2.09 mm, female 2.29 mm
Carapace: Granular, with shallow depressions from which arise short hairs. Male elongate, dorsal and ventral margins evenly arched; female ovoid, with more pronounced rostrum and deeper sinus.
Antenna/Antennule (2nd Antenna): Male antenna 6-jointed with all setae and spines long, sensory seta 3x the length of the 5 th and 6 th joints, basal portion bulbous, distal portion bifurcate; female with longer setae than male. Antennule exopodite 3-jointed in male, 2-jointed in female; basal joint with 1 distal seta and 5 setae in a group; distal joint tapered with 1 annulated seta on the distal margin, a long plumose seta arising from the middle of the anterior margin, 2.5x as long as the distal seta.
Mouthparts: Male, mandible 5-jointed, distal 3 joints narrow, apical spine weak; female, mandible 5-jointed with broad basal joints, 3 strong claws on distal joint.
7th Limb: Male with 8 annulated setae on the margins, 4 distal ones grouped on each side; female with 10 plumose setae; the 6 distal ones grouped 3 on each side.
Furca: 10 claws; the distal claws 1, 2, 3 and 5 being strong and heavily toothed with short stout setae in a line along the posterior margin; the 5 th claw being 1/3 the length of the 1 st ; the other 6 claws small and weak, with very fine setae. Female with same arrangement as male but claws more robust.

Diagnostic Characteristics

Diagnostic Characteristics	Photo, Illustrations	Photo, Illustration Credit
<p>Shell ovoid with small rostrum and shallow incisur; surface of shell finely granular; male more elongate than female, with lateral eye</p> <p>Right valve slightly smaller than left</p>	 <p><i>E. carcharodonta</i> female and males (lateral view); specimens from 2014 PSEMP Long-term Station 44 Rep 2</p>	<p>Kornicker and Harrison-Nelson 1997</p> <p>Marine Sediment Monitoring Team</p>
<p>Furca with 10 paired claws; first 3 pairs long, 4th pair short, 5th about twice the length of the 4th and half the length of the 1st, and the subsequent 5 pairs short</p>	 <p>Caudal furca (lateral view, one half removed for clarity); specimen from 2014 PSEMP Long-term Station 13 Rep 2</p>	<p>Kornicker and Harrison-Nelson 1997</p> <p>Marine Sediment Monitoring Team</p>

Related Species and Characteristic Differences

Species Name	Diagnostic Characteristics
<i>Euphilomedes longiseta</i>	Caudal furca with 11 pairs of claws
<i>Euphilomedes producta</i>	Caudal furca with 11 pairs of claws; carapace with dorso-posterior projections

Comments

Preserved specimens from Puget Sound may vary in shell color from pale cream to a darker brown - see image at top of sheet (D. Burgess, personal observation).

Literature

- Baker, J.H. 1975. Distribution, ecology, and life histories of selected Cypridinacea (Myodocopida, Ostracoda) from the Southern California mainland shelf. 185 pp. Unpublished doctoral dissertation, University of Houston, Houston, TX.
- Kornicker, L.S. and E. Harrison-Nelson. 1997. Myodocopid Ostracoda of Pillar Point Harbor, Half Moon Bay, California. *Smithsonian Contributions to Zoology* No. 593, 1-53.
- Lie, U. and R.A. Evans. 1973. Long-term variability in the structure of subtidal benthic communities in Puget Sound, Washington, U.S.A. *Marine Biology* 21 (2): 122-126.
- Poulsen, E.M. 1962. Ostracoda - Myodocopa, Part I: Cypridiniformes - Cypridinidae. *Dana Report Carlsberg Foundation* No. 57, 1-414.
- Smith, V.Z. 1952a. Further Ostracoda of the Vancouver Island Region. *Journal of the Fisheries Research Board of Canada* 9, 16-41. (p. 16-18, as *Philomedes carcharodonta*)

More Information

<p>More information about Puget Sound benthic invertebrates is available at: http://www.ecy.wa.gov/programs/eap/psamp/index.htm</p>	<p>Prepared by Dany Burgess (Ecology) and Julianne Ruffner (Ecology); reviewed by Jeff Cordell (UW – Seattle). This document is available on the Department of Ecology's website at https://fortress.wa.gov/ecy/publications/SummaryPages/1603205.html</p>	<p>If you need this document in a format for the visually impaired, call (360) 407-6764. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.</p>
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